

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002455

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60L11/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B60L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 2004/030968 A (TOYOTA MOTOR CO LTD ; MIZUNO MINOBU (JP)) 15 April 2004 (2004-04-15) page 8, line 20 - page 10, line 24; figure 1 abstract	1-5,7-18
X	US 6 107 691 A (GORE GERALD E ET AL) 22 August 2000 (2000-08-22)	1,2,11, 17
Y	column 3, line 33 - column 8, line 29; figures 2,3,7 abstract	7-10
Y	US 2003/046802 A1 (CHERNOFF ADRIAN B ET AL) 13 March 2003 (2003-03-13) page 3, paragraph 50-52 page 8, paragraph 88-91; figures 1-3,10 abstract	7-10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

26 January 2005

Date of mailing of the international search report

03.02.05

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002455

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/034186 A1 (MORITA HIDEKI ET AL) 20 February 2003 (2003-02-20) page 3, paragraph 35 - page 4, paragraph 47; figures 1-3c abstract -----	1-5, 11-18
A	US 6 220 380 B1 (TAKEUCHI AKISHIRO ET AL) 24 April 2001 (2001-04-24) column 2, line 43 - column 3, line 7; figures 1-3 abstract -----	1-5,7-18
A	EP 0 677 417 A (DAIMLER BENZ AG) 18 October 1995 (1995-10-18) column 2, line 11 - column 3, line 50; figures 1a-2b abstract -----	7-10

INTERNATIONAL SEARCH REPORT

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PCT/IB2004/002455

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-5, 7-18
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,11-18

A fuel cell equipped vehicle comprising:
a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided on the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided.

Further details of the first group of inventions are directed to the arrangement of a connector and of a fuel supply source.

2. claim: 6

A fuel cell equipped vehicle comprising:
a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided on the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided.

Further details of the second invention concern the outer shape of a case for the power control unit.

3. claims: 7-10

A fuel cell equipped vehicle comprising:
a power control unit which converts power supplied from a fuel cell and that supplies that converted power to a load, wherein high voltage wiring, which connects at least one of the fuel cell and the load to the power control unit, is provided on one side of either the left or the right side of the vehicle, and a fuel line for supplying a fuel gas to the fuel cell is provided on the other side of the vehicle, which is opposite the side on which the high voltage wiring is provided.

Further details of the third group of inventions are directed to the frame structure of the vehicle.

Information on patent family members

PCT/IB2004/002455

Form PCT/ISA/210 (patent family annex) (January 2004)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002455

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6220380	B1	24-04-2001	JP	11180163 A	06-07-1999
EP 0677417	A	18-10-1995	DE	4412453 A1	26-10-1995
			EP	0677417 A1	18-10-1995